

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

HOTTINEN et al

International Appln. No.: PCT/FI03/00004

Filed: Concurrently herewith

Attorney Dkt. No.: 61253.00023

For: HIGH RATE TRANSMIT DIVERSITY TRANSMISSION AND RECEPTION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Attention: PCT DO/EO/US

July 2, 2004

Sir:

This is an Information Disclosure Statement submitted under 37 C.F.R.1.97(b).

The references cited in the attached Form PTO-1449 were cited in the enclosed International Search Report issued by the Swedish Patent Office in connection with the above international application. It is understood that the Swedish Patent Office has sent a copy of each of the cited references to the U.S. Patent and Trademark Office. If this is not the case, please contact Applicants' representative at the telephone number listed below.

In view of the above, all requirements of 37 CFR 1.97 and all official guidelines pertaining to Information Disclosure Statements have been complied with, and it is

therefore respectfully requested that the Examiner consider the references and make them of record in this application.

In the event that there are any fees due with respect to the filing of this paper, please charge Counsel's Deposit Account No. 50-2222.

Respectfully submitted,



Douglas H. Goldhush
Registration No. 33,125

Customer Number 32294
SQUIRE, SANDERS & DEMPSEY LLP
14TH Floor
8000 Towers Crescent Drive
Tysons Corner, Virginia 22182-2700
Telephone: 703-720-7800
Fax: 703-720-7802

DHG:scc

Enclosures: PTO-1449 Form
International Search Report

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
61253.00023

SERIAL NO. **107500633**
New Application

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

HOTTINEN et al

FILING DATE

July 2, 2004

GROUP

Not yet assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO PART.		
	AE								
	AF								
	AG								
	AH								
	AI								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AJ	TSGR1#20(01)-0459, TSG-RAN Working Group 1 meeting #20, May 21-25, 2001, Busan, Korea, "Improved Double-STTD Schemes Using Asymmetric Modulation and Antenna Shuffling"
	AK	"Complex space-time block codes for four Tx antennas", Tirkkonen et al, Global Telecommunications Conference, 2000, Globecom '00, IEEE November 27 - December 1, 2000, Pages 1005-1009, Vol. 2.
	AL	"Improved MIMO performance with non-orthogonal space-time block codes", Tirkkonen et al, Global Telecommunications Conference, 2001. Globecom '01. IEEE November 25-29, 2001, Pages 1122-1126, Vol. 2.
	AM	"Minimal non-orthogonality rate 1 space-time block code for 3+ Tx antennas", Tirkkonen et al, Spread Spectrum Technique and Applications, 2000, IEEE Sixth International Symposium on, September 6 - 9, 2000, Pages 429-432, Vol. 2.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.